

September 8, 1961.

Dr. B. D. Davis,
411 E. 69 Street,
New York, 21, N.Y.

Dear Bernie:

A package of cultures of *E. coli*, *A. aerogenes*, *P. fluorescens* and *S. typhimurium* was mailed out to you yesterday. They include about all of our aromaticless mutants, and we hope they will be of some use in your comparative biochemistry. Some of the mutants are from new fertile strains which are being studied further here, principally from a genetic and immunogenetic viewpoint (by Dr. Palmer D. Skaar, Ph.D. Indiana (Sonneborn) 1951). The strains are: (Requirements from incidental mutations in [])

S. typhimurium

P. fluorescens

From prototroph

B.D.
SW-8 Tr S-21
SW-232 ϕ LT-17
SW-215 ϕ LT-12
SW-38 $\phi+ty+tr$ SY-23
SW-178 ϕ LT-2

A3.12 ++ (Stanier)
PF-3 ϕ
PF-20 Tr [Leuc]
PF-4 Tr
PF-24 Tr [Meth]
PF-11 ????? RNA; B-12????] Want to try your
PF-21 [Leuc]; Yeast Extract] hand at these.

E. coli

W-

1069 Tr[lys+meth] W-1045
1104 $\phi+ty+tr$ W-1113 (wg-2)
1145 Tr [Leuc] W-1115
1150 $\phi ty tr$ [Leuc] "
1154 — sent by mistake, if at all
1425 ty W-1373
1426 ty ($\phi tr+$) "
1427 ty or tr "
1504 ty or prol??? W-1494
1505 ty "

You must have a full set from K-12, including such as 58-278. Dave Bonner or Sofia Simmonds will have all of these. We have no recent ones.

Nothing much new. Zinder completed a rather inconclusive gradocol exp: a .160 u apd filter passed some PA but also some tiny granules that swelled into "small large bodies" with antiserum. I'm playing with a simplified method of drying and preserving cultures: add dense bacterial suspensi to about 20 volumes dried silica gel and seal off (no vacuum). It seems to work quite well but I'm

Shapiro I28 *A. aerogenes*
[Hist, Tr]

afraid to rely on it completely, just yet, for our collection, and it will take several years to test it properly. We're off now to the Genetics Soc, meeti in Twin Cities.

Sincerely,

Joshua Lederberg